Sequences for the PCR Primers Used to Amplify SSR Loci in Soybean

These primers were developed by Perry Cregan (Soybean and Alfalfa Research Laboratory, USDA-ARS, Beltsville, MD) with extramural financial support from the United Soybean Board and the able technical assistance of Edward Fickus, Sarah Hyatt, Charles Quigley, Patrick Elia, Susan Fogarty, Jason Kenworthy, and Chris Lee. Any publications resulting from their use should reference the paper (Crop Science 1998 submitted) where they were first described.

An Integrated Genetic Linkage Map of the Soybean

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PCR conditions for using these primers can be found here.

You can browse through the entire list or use these links to go to a particular section

Satt Sat Sct Other types

Click on an entry to view the primer sequences

Satt001	Satt002	Satt005	Satt006	Satt009	Satt012	Satt014	Satt020	Satt022	Satt030	Satt031
Satt032	Satt038	Satt041	Satt042	Satt045	Satt046	Satt049	Satt050	Satt052	Satt055	Satt063
Satt066	Satt070	Satt071	Satt072	Satt073	Satt076	Satt077	Satt079	Satt080	Satt082	Satt083
Satt089	Satt094	Satt095	Satt100	Satt102	Satt114	Satt115	Satt117	Satt119	Satt122	Satt123
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Sct_001 Sct_010 Sct_026 Sct_028 Sct_033 Sct_034 Sct_046 Sct_064 Sct_065 Sct_067
Sct_094 Sct_137 Sct_147 Sct_186 Sct_187 Sct_188 Sct_189

GMABAB GMENOD2B GMGLPSI2 GMRUBP SOYHSP176 SOYGPATR SOYLBC SOYN
SOYPRP1 GMSC514 Scaa001 Scaa003

PCR Reagents for Soybean SSR Amplification

1. 30 ng genomic soybean DNA
2. Buffer:
   - 50 mM KCl
   - 10 mM Tris-HCl (pH 9.0 at 25° C)
   - 0.1 % Triton X-100
3. 1.5 mM $MgCl_2$
4. 0.15 mM for each of the NTPs
5. 1 unit Taq DNA Polymerase

Thermocycling Profile for Amplification of Soybean SSRs

1. 2 min at 95° C
2. 33 cycles of
    - Denaturation: 92° C
    - Annealing: 47° C
        - For better, but still specific amplification, 46° C will generally work quite well
    - Extension: 68° C

Use equal times for denaturation, annealing, and extension. Time depends on PCR machine, volume of reaction, etc.